NOVARTIS

Executive Director, Data Science & Applied AI

Job ID
REQ-10092235
Ноя. 16, 2026
США

Сводка

#LI-Remote

We are seeking a strategic and results-driven Executive Director, Data Science & Applied AI to lead the development, operationalization, and scaling of machine learning, predictive modeling, and AI-powered solutions across Novartis US Commercial.

This leader will be responsible for translating complex business challenges into scalable, production-ready AI capabilities that enable intelligent decision-making, personalized customer engagement, and improved business outcomes.

The successful candidate will combine deep expertise in data science, machine learning, and modern AI technologies with strong business acumen, technical leadership, and exceptional people management skills. They will lead high-performing teams, partner across business and technology functions, and accelerate the adoption of reusable, enterprise-grade AI capabilities.

This position can be based remotely anywhere in the U.S. (there may be some restrictions based on legal entity). Please note that this role would not provide relocation as a result. The expectation of working hours and travel (domestic and/or international) will be defined by the hiring manager. This position will require 20% travel.

About the Role

Data Science & Applied AI Leadership

- Lead the design, development, and deployment of machine learning models, predictive and prescriptive AI solutions, and intelligent decision systems addressing high-value commercial business needs.
- Establish technical direction, development standards, and best practices for Data Science and Applied AI, ensuring solutions are scalable, reliable, explainable, and maintainable.
- Advance the application of machine learning, optimization, generative AI, and agentic AI to enable intelligent business decisions and operational effectiveness.
- Identify opportunities to modernize decision-making through AI-driven capabilities and innovative modeling approaches.
- Translate emerging AI technologies into practical solutions that deliver measurable business value.

AI-Powered Commercial Decision Systems

- Partner with Product, Marketing, Sales, Medical, Analytic and Strategy teams to identify and prioritize high-value opportunities for Data Science and Applied AI.
- Drive the development of predictive and prescriptive models supporting customer engagement, targeting, HCP and patient identification, and next-best-action capabilities.
- Lead the development of AI-powered decision intelligence solutions that enhance commercial effectiveness and customer experiences.
- Integrate AI models and decision capabilities into business processes, enterprise applications, and operational workflows to maximize adoption and measurable impact.
- Establish success measures to evaluate model effectiveness, operational performance, business adoption, and value realization.

AI Innovation, Engineering & Scalability

- Drive the transition from individual models and use cases to reusable, scalable AI capabilities, components, and intelligent services.
- Collaborate with Data Engineering, AI Engineering, Enterprise Architecture, and Technology teams to enable production-grade AI solutions.
- Champion modern development and operational practices, including MLOps, model monitoring, automated evaluation, and continuous improvement.
- Guide the integration of machine learning, generative AI, and agentic workflows into enterprise platforms and business applications.
- Ensure appropriate governance, responsible AI practices, data privacy, security, and regulatory compliance throughout the AI lifecycle.

Cross-Functional Partnership & Influence

- Serve as a trusted technical and strategic advisor to business leaders, translating complex Data Science and AI concepts into actionable recommendations.
- Build strong partnerships across commercial functions, Data & Digital, Insights & Analytics, Strategy, and other enterprise teams.
- Influence cross-functional priorities, technical decisions, and solution design through evidence-based recommendations and collaborative leadership.
- Drive alignment across stakeholders on business requirements, AI solution approaches, delivery expectations, and success measures.
- Communicate progress, opportunities, risks, and business outcomes effectively to senior leadership.

People Leadership & Organizational Development

- Lead, develop, and inspire high-performing teams of data scientists, machine learning specialists, and applied AI professionals across US and global locations.
- Build organizational capabilities in predictive modeling, machine learning, AI engineering, generative AI, and emerging technologies.
- Foster a culture of innovation, technical excellence, accountability, collaboration, and continuous learning.
- Develop talent through coaching, mentoring, succession planning, and meaningful career development opportunities.
- Establish effective operating practices that balance innovation, speed, technical quality, and business impact.
- Manage resource allocation, delivery priorities, and external partnerships to maximize organizational effectiveness.

Essential Requirements:

- Advanced degree in Data Science, Computer Science, Statistics, Mathematics, Engineering, or a related quantitative discipline. PhD preferred.
- 12+ years of relevant experience in data science, machine learning, AI development, or related technical disciplines, including significant leadership experience.
- Demonstrated success leading multidisciplinary technical teams and delivering enterprise-scale machine learning and AI solutions.
- Deep understanding of statistical modeling, machine learning, predictive modeling, optimization, and modern AI methodologies.
- Strong familiarity with generative AI, large language models, retrieval-augmented generation, and emerging agentic AI architectures.
- Experience translating business challenges into AI solution strategies and measurable business outcomes.
- Proven ability to influence senior stakeholders and lead initiatives across complex, matrixed organizations.
- Excellent communication, executive presentation, and organizational leadership skills.

Desirable Requirements:

- Experience within the pharmaceutical, biotechnology, healthcare, or life sciences industry.
- Strong understanding of US pharmaceutical commercial operations, customer engagement, patient-level modeling, and field effectiveness.
- Experience building and operationalizing machine learning and AI solutions in enterprise scaled environments.
- Familiarity with modern AI and data platforms, including AWS, Snowflake, Databricks, and related technologies.
- Experience with production ML systems, MLOps, model governance, and responsible AI frameworks.
- Demonstrated experience scaling global technical teams and managing external technology or consulting partners.
- Proven ability to balance strategic innovation with disciplined execution in a fast-paced, evolving business environment.

Novartis Compensation Summary:

The salary for this position is expected to range between $225,400 and $418,600 per year.

The final salary offered is determined based on factors like, but not limited to, relevant skills and experience, and upon joining Novartis will be reviewed periodically. Novartis may change the published salary range based on company and market factors.

Your compensation will include a performance-based cash incentive and, depending on the level of the role, eligibility to be considered for annual equity awards.

US-based eligible employees will receive a comprehensive benefits package that includes health, life and disability benefits, a 401(k) with company contribution and match, and a variety of other benefits. In addition, employees are eligible for a generous time off package including vacation, personal days, holidays and other leaves.

Why Novartis: Helping people with disease and their families takes more than innovative science. It takes a community of smart, passionate people like you. Collaborating, supporting and inspiring each other. Combining to achieve breakthroughs that change patients' lives. Ready to create a brighter future together? https://www.novartis.com/about/strategy/people-and-culture

Benefits and Rewards: Learn about all the ways we'll help you thrive personally and professionally.
Read our handbook (PDF 30 MB)

EEO Statement:

The Novartis Group of Companies are Equal Opportunity Employers. We do not discriminate in recruitment, hiring, training, promotion or other employment practices for reasons of race, color, religion, sex, national origin, age, sexual orientation, gender identity or expression, marital or veteran status, disability, or any other legally protected status.

Accessibility & Reasonable Accommodations

The Novartis Group of Companies are committed to working with and providing reasonable accommodation to individuals with disabilities. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the application process, or to perform the essential functions of a position, please send an e-mail to us.reasonableaccommodations@novartis.com or call +1(877)395-2339 and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

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Место
США
Состояние
Remote, US
Сайт
Remote Position (USA)
Company / Legal Entity
U014 (FCRS = US014) Novartis Pharmaceuticals Corporation
Functional Area
Data and Digital
Job Type
Full time
Employment Type
Regular
Shift Work
No

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